

CURRICULUM VITAE

PERSONAL INFORMATION

Name **VARVARO GASPARE**
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Website <https://cnr-it.academia.edu/GaspereVarvaro>
Nationality Italian
Date of birth 12 October 1978

WORK EXPERIENCE

- Dates March 2010 – to date
- Name and address of employer Institute of Structure of Matter (ISM) – CNR, Research Area Roma1, Via Salaria km 29.300, Monterotondo Scalo (Roma), Italy
- Type of business or sector Research in Materials Science, magnetic materials
- Occupation or position held **Research scientist**, permanent position
 - Main activities Preparation and investigation of angle and temperature dependent magnetic and magneto-transport properties of nanostructured materials and composites for fundamental studies and applications (*information storage, energy, sensors, biomedicine*).

- Dates 15/06/2009 – 15/03/2010
- Name and address of employer ISM – CNR
- Type of business or sector Research in Materials Science, magnetic materials
- Occupation or position held **Research scientist**, temporary position
 - Main activities Preparation and magnetic characterization of magnetic films with perpendicular anisotropy and hard/soft exchange coupled composites for magnetic recording applications and fundamental studies.

- Dates 01/10/2007 – 31/05/2009
- Name and address of employer IONVAC Process S.r.L, Rome / ISM – CNR
- Type of business or sector Research in Materials Science, materials fabrication
- Occupation or position held **Contract**
 - Main activities Design, assembling and testing of a new “Multifunction Pulsed Laser Deposition” for preparation of materials with high technological impact. Regional funds for SME innovation.

- Dates 01/02/2007 – 30/09/2007
- Name and address of employer Universitat de Fisica Fonamental, Barcellona (Spain) / ISM – CNR
- Type of business or sector Research in Materials Science, magnetic materials
- Occupation or position held **Contract**
 - Main activities Preparation and characterization of nanostructured magnetic materials for technological applications (e.g. magnetic recording, biomedicine).

EDUCATION

- Dates 01/11/2003 - 16/02/2007
- Name and type of organisation providing education University "La Sapienza" of Roma - Italy

- Title of qualification awarded **PhD in Material Science**

- Title of thesis CoPt-based thin PLD film systems for high-density magnetic recording. Conventional and tilted perpendicular media.

Online: <http://padis.uniroma1.it/handle/10805/772>

- Research Activity Preparation by Pulsed Laser Deposition (PLD) of $\text{Co}_x\text{Pt}_{1-x}$ ($0.2 < x < 0.5$)/Pt thin films on single-crystal MgO (100) substrates. Structural (XRD, EDXD), microstructural (EDXR, STM, XPS) and magnetic characterization (vector-VSM, SQUID and AGFM).

- Dates 09/1997 - 28/05/2003
- Name and type of organisation providing education University "La Sapienza" of Roma - Italy

- Title of qualification awarded **Degree in Industrial Chemistry - Material Research and Development** (full marks with honours)

- Title of thesis Nanostructured films for high-density magnetic recording: PLD deposition and structural, microstructural and magnetic characterization.

- Research Activity Preparation by Pulsed Laser Deposition (PLD) of CoPt_3/Cr thin films on single-crystal (MgO(100), Si(110)) and amorphous (glass) substrates. Structural (XRD, EDXD), microstructural (EDXR, STM) and magnetic characterization (SQUID).

Schools

- Innovative microscopy techniques at atomic resolution. Genova (Italy), 13 - 14 December 2012
- Nanomagma School on Magnetoplasmonics. Firenze (Italy), 8 June 2011
- New experimental approaches to magnetism. Constanta (Romania), 7 - 16 September 2005
- Spring College on Science at the Nanoscale. Diramare (Trieste, Italy), 24 May - 11 June 2004

SIGNIFICANT INTERNATIONAL EXPERIENCE

- Dates 02/04/2013 – 27/05/2013
- Name and type of organisation University of Delaware, Delaware (USA); Supervisor: Prof. G. Hadjipanayis
- Occupation or position held **Stage**
- Research Activity Preparation by sputtering of granular FePtCu-based thin films with perpendicular anisotropy.

- Dates 01/04/2008 – 30/06/2008, 15/09/2008 – 10/10/2008
- Name and type of organisation Trinity College Dublin, Dublin (Ireland); Supervisor: Prof. J.M.D. Coey
- Occupation or position held **Stage**
- Research Activity
 - Electrochemical synthesis, morphological (SEM) and magnetic characterization (vector-VSM, SQUID) of magnetic barcode nanowires for biomedical applications.
 - Chemical synthesis and microstructural characterization (AFM) of nanoporous polymeric membranes as templates for the fabrication of ordered arrays of magnetic nanodots.

- Dates 11/03/2005 – 15/09/2005
- Name and type of organisation University “Joseph-Fourier”, Laboratoire Louis Néel, CNRS, Grenoble (France); Supervisor: Dr D. Givord
- Occupation or position held **Stage**
- Research Activity Assembling and testing of a new Pulsed Laser Deposition apparatus, where magnetic and electric field are combined for clean and selective deposition on pre-patterned substrates.

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

Excellent reading skills, good writing and verbal skills.

FRENCH

Good reading, writing and verbal skills.

SCIENTIFIC INTERESTS

Main interest. Investigation of angle and temperature dependent magnetic and magneto-transport properties of nanostructured materials and composites for information storage and magneto-electronic applications as well as fundamental studies.

Other fields of interest. Nanostructured materials and composites for health and energy applications (permanent magnets, magnetocalorics); archeological specimens.

TECHNICAL SKILLS AND COMPETENCES

– Knowledge of magnetic properties of matter and related applications.

– Familiar with different experimental techniques used in Materials Science: deposition techniques (PLD, sputtering, electrochemical deposition), magnetometry (vector-VSM, SQUID, AGFM), scanning probe microscopy, X-ray reflectivity and diffraction.

- Experience in design, assembling and testing of deposition chambers for PLD deposition.
- Experienced and capable user of word processors, scientific software, and document preparation systems for scientific texts (LaTeX, MiKTeX).

FURTHER INFORMATION

- Member of the Italian Association of Magnetism (AIMagn)
- Chemist Professional qualification (Roma, 21/01/2005)

PARTICIPATION TO FOUNDED PROJECTS

- Marie Curie Actions IRSES (2012 - 2015) "Magnetic nanoparticles and thin films for spintronic applications and high performance permanent magnets" (NANOMAG).
- PRIN 08 Italian project (2010 - 2012) "Preparation of perpendicular and lateral exchange-spring systems and study of their structural, microstructural and magnetic properties".
- ICT UE project (2008 - 2011) "Terabit magnetic Storage Technologies" (TERAMAGSTOR).
- MAE CNR-CSIC Cooperation Agreement (2007-2008) "Microstructural and magnetic study of thin $\text{Co}_{50}\text{Pt}_{50}$ (111) PLD films for tilted magnetic recording".
- FILAS Italian project (2007 - 2009) "Design and developing of a multifunctional PLD apparatus for deposition of metallic alloy films, nanostructured multilayers and systems with complex stoichiometry" (MULTIPLD).
- NMP UE project (2002-2005) "Self assembled nanoparticles and nanopatterned arrays for high density magnetic recording" (HIDEMAR). The Project was awarded with one of the 10 Descartes Prizes 2005 for the Excellence in Scientific Research (Section Engineering).

FOUNDED PROPOSAL TO MAJOR INTERNATIONAL FACILITIES

ELETTRA Synchrotron (Trieste, Italy), 2012. Proposal number: 20115158, 24 Shift, VUV PHOTOEMISSION beamline.
Title: "Probing the electronic and magnetic structure of L1_0 FePt thin films by angle-resolved photoemission".

TEACHING, REVIEW, AND CONFERENCE ORGANISATION EXPERIENCE

LECTURES

- Magnetic Recording.
Italian School of Magnetism, Pavia (Italy), 5-10 February 2012

SEMINARIES

- Nanostructured Magnetic Materials.
IIM-HZDR, Dresden (Germany), 17 October 2011
- Pulsed Laser Deposition under magnetic and electric field: a way to make nanostructured materials.
Laboratoire Louis Néel - CNRS, Grenoble (France), 1 September 2005
- Exchange Bias.
ISM-CNR, Roma (Italy), 21 December 2004

EDITORIAL AND REFEREEING ACTIVITIES

- Editor of the book "Ultra-High-Density Magnetic Recording: Storage Materials and Media Designs", Pan Stanford Publishing.

– Referee on International Journals

IEEE Transaction on Magnetics, Journal of Magnetism and Magnetic Materials, Journal of Materials Science, Journal of Physical Chemistry, Journal of Solid State Chemistry, Journal of Material Chemistry C, Material Chemistry and Physics, Materials Research Bulletin.

– Independent expert evaluator for International Projects

NCSTE-Kazakistan.

CONFERENCE ORGANIZATION

Member of the organizing committee of the following Conferences:

- International Conference of Nanostructured Materials (NANO2010), Roma (Italy), 13-17 September 2010.
- I National Conference of Magnetism (MAGNET09), Roma, (Italy) 27 – 29 October 2009.
- International Conference on Fine Particle and Magnetism (ICFPM-07), Roma (Italy), 9-12 October 2007.
- VIII National Conference of Nanophase Materials, Roma (Italy), 29-30 May 2006.
- National Conference of Nanophase Materials, Roma (Italy), 16-17 September 2004.

CONFERENCES/WORKSHOPS

- GiTe14, Padova (Italy), 19 – 20 February 2014
- Workshop AlMagn-Enterprise “Il magnetismo attrae le imprese”, Bologna (Italy), 25 February 2014
- MAGNET13, Napoli (Italy), 20 – 22 February 2013
- NanotechItaly12, Venezia (Italy), 21 – 23 November 2012
- JEMS12, Parma (Italy), 09 – 14 September 2012
- ICSM12, Istanbul (Turkey), 29 April – 04 May 2012
- XCVII Congresso Nazionale SIF, L’Aquila (Italy), 26 – 30 September 2011
- X Convegno Nazionale Materiali Nanofasici, Bologna (Italy), 6 – 8 September 2011
- MAGNET11, Torino (Italy), 23 – 25 February 2011
- Nanoscience and nanotechnology, INFN – Laboratori Nazionali di Frascati (Roma, Italy), 20 – 23 September 2010
- NANO2010, Roma (Italy), 13 – 17 September 2010
- JEMS2010, Kraków (Poland), 23 – 28 August 2010
- ICFPM10, Uppsala (Sweden), 14 – 24 June 2010
- MAGNET09, Roma (Italy), 27 – 29 October 2009
- IX Convegno Nazionale Materiali Nanofasici, Iglesias (Italy), 3 – 5 June 2009
- Taiwan-Italy Workshop on Nanoelectronics and Nanomagnetism, Roma (Italy), 20 – 21 October, 2008
- JEMS2008, Dublin (Ireland), 14 – 19 September 2008
- EPS – CMD22, Roma (Italy), 25 – 29 August 2008
- NANOSEA08, Monteporzio Catone (Roma, Italy), 7 – 10 July 2008
- ICFPM, Roma (Italy), 09 – 12 October 2007
- VIII Convegno Nazionale Materiali Nanofasici, Roma (Italy), 03-04 October 2006
- E-MRS Spring Meeting 2005, Strasbourg (France), 31 May – 3 June 2005
- VII Convegno Nazionale Materiali Nanofasici, Roma (Italy), 16 – 17 September 2004
- International Conference of Magnetism (ICM2003), Roma (Italy), 27 July – 1 August, 2003

SCIENTIFIC PUBLICATIONS AND COMMUNICATIONS

Author of 24 papers on ISI journals and conference proceedings, 1 book chapter and over 70 contributions (42 Oral - 18 Invited) to national and international conferences and workshops.

Google Scholar (number of citation 117; h-index : 7)

Scopus (number of citation 92; h-index : 5)

ISI web (number of citation 93; h-index : 5)

LIST OF PUBLICATIONS

- Magnetocaloric effect in $\text{Ni}_{47}\text{Mn}_{40}\text{Sn}_{13}$ alloy prepared by mechanical alloying.
A. Ghotbi Varzanech, P. Kameli, F. Karimzadeh, B. Aslibeiki, G. Varvaro and H. Salamati, *J. Alloy Comp.*, Vol. 598, p. 6, 2014
- Defect-induced magnetism in cobalt-doped ZnO epilayers.
G. Ciatto, A. Di Trollo, E. Fonda, P. Alippi, A. Polimeni, M. Capizzi, G. Varvaro and A. Amore Bonapasta, *AIP Conf. Proc. (ICDS27)*, Vol. 1583, p. 332, 2014
- Magnetic properties of granular $\text{CoCrPt}:\text{SiO}_2$ thin films deposited on GaSb nanocones.
D.K. Ball, K. Lenz, M. Fritzsche, G. Varvaro, S. Gunther, P. Krone, D. Makarov, A. Mucklich, S. Facsko, J. Fassbender and M. Albrecht, *Nanotechnology*, Vol. 25, p. 085703, 2014
- Interface exchange coupling in a CoPt/NiO bilayer.
S. Laureti, L. Del Bianco, B. Detlefs, E. Agostinelli, V. Foglietti, D. Peddis, A. M. Testa, G. Varvaro and D. Fiorani, *Thin Solid Films*, Vol. 543, p. 162, 2013
- Study of microstructure and magnetization reversal mechanism in granular $\text{CoCrPt}:\text{SiO}_2$ films of variable thickness.
Gaspere Varvaro, A.M. Testa, E. Agostinelli, D. Fiorani, S. Laureti, F. Springer, C. Brombacher, M. Albrecht, L. Del Bianco, G. Barucca, P. Mengucci, D. Rinaldi, *Mat. Chem Phys.*, Vol. 141, p. 790, 2013
- Magnetization reversal mechanism in perpendicular exchange-coupled $\text{Fe}/\text{L}_{10}\text{-FePt}$ bilayers.
G. Varvaro, F. Albertini, E. Agostinelli, F. Casoli, D. Fiorani, S. Laureti, P. Lupo, P. Ranzieri, B. Astinchap and A.M. Testa, *New J. Phys.*, Vol. 14, p. 073008, 2012
- Bifunctional $\text{FePt}@\text{MWCNTs}/\text{Ru}$ nanoarchitectures: synthesis and characterization.
B. Astinchap, R. Moradian, A. Ardu, C. Cannas, G. Varvaro and A. Capobianchi, *Chem. Mater.*, Vol. 24, p. 3393, 2012
- Highly controlled dip-coating deposition of fct FePt nanoparticles from layered salt precursor into nanostructured thin films: an easy way to tune magnetic and optical properties.
M. Faustini, A. Capobianchi, G. Varvaro and D. Grosso, *Chem. Mater.*, Vol. 24, p. 1072, 2012
- Exchange Bias and magnetothermal properties in $\text{Fe}@\text{Mn}$ nanocomposites. S. Laureti, D. Peddis, L. Del Bianco, A.M. Testa, G. Varvaro, E. Agostinelli, C. Binns, S. Baker and D. Fiorani, *JMMM*, Vol. 324, p. 3503, 2012
- Hard/graded exchange spring composite media based on FePt.
V. Alexandrakis, Th. Speliotis, E. Manios, D. Niarchos, J. Fidler, J. Lee and G. Varvaro, *J. Appl. Phys.*, Vol. 109, p. 07B729, 2011
- Magnetic interactions in silica coated nanoporous assemblies of CoFe_2O_4 nanoparticles with cubic magnetic anisotropy.
S. Laureti, G. Varvaro, A.M. Testa, D. Fiorani, E. Agostinelli, G. Piccaluga, A. Musinu, A. Ardu and D. Peddis, *Nanotechnology*, Vol 21, p. 315701, 2010
- Properties of pulsed laser deposited fluorinated hydroxyapatite films on titanium.
J.V. Rau, V.V. Smirnov, S. Laureti, A. Generosi, G. Varvaro, M. Fosca, D. Ferro, S. Nunziante Cesaro, V. Rossi Albertini and S.M. Barinov, *Mat. Res. Bull.*, Vol. 45, p. 1304, 2010

- Ordered arrays of FePt nanoparticles on unoxidized silicon surface by wet chemistry.
A. Mari, E. Agostinelli, D. Fiorani, A. Flamini, S. Laureti, D. Peddis, A. M. Testa, G. Varvaro, M. Vasquez Mansilla, A. Mezzi and S. Kaciulis, *Superlatt. Microstr.*, Vol. 46, p.95, 2009
- Exchange Bias in fcc-CoPt/CoO/Si films as a function of annealing treatment.
S. Laureti, E. Agostinelli, D. Fiorani, A.M. Testa, G. Varvaro, A. Generosi, B. Paci and V. Rossi Albertini, *Superlatt. Microstr.*, Vol. 46, p. 90, 2009
- Exchange Bias in CoFe₂O₄/NiO nanocomposites.
D. Peddis, S. Laureti, M.V. Mansilla, G. Varvaro, C. Cannas and D. Fiorani, *Superlatt. Microstr.*, Vol. 46, p. 125, 2009
- Magnetic anisotropy and intergrain interactions in L1₀-CoPt(111)/Pt(111)/MgO(100) PLD granular films with tilted easy axes.
G. Varvaro, E. Agostinelli, S. Laureti, A.M. Testa, J.M. García-Martin, F. Briones and D. Fiorani, *J. Phys. D: Applied Physics*, Vol 41, p. 134017, 2008
- Study of magnetic easy axis 3D-arrangement in L1₀-CoPt(111)/Pt(111)/MgO(100) tilted system for perpendicular recording.
G. Varvaro, E. Agostinelli, S. Laureti, A.M. Testa, A. Generosi, B. Paci and V. Rossi Albertini, *IEEE Trans. Magn.*, Vol 44, p. 643, 2008
- Effect of the oxygen partial pressure on PLD cobalt oxide film.
S. Laureti, E. Agostinelli, G. Scavia, G. Varvaro, V. R. Albertini, A. Generosi, B. Paci, A. Mezzi and S. Kaciulis. *Appl. Surf. Sci.*, Vol 254, p. 5111, 2008
- Study of structural microstructural and magnetic properties of very thin Co₅₀P₅₀ films deposited by PLD.
E. Agostinelli, S. Laureti, G. Varvaro, A. Generosi, B. Paci, V. Rossi-Albertini, G. Scavia and A.M. Testa. *Material Science and Engineering C*, Vol. 27, p. 1466, 2007
- Evolution of the Pt layer deposited on MgO(001) by Pulsed Laser Deposition as a function of the deposition parameters: A scanning tunneling microscopy and energy dispersive X-ray diffractometry/reflectometry study.
G. Scavia, E. Agostinelli, S. Laureti, G. Varvaro, B. Paci, A. Generosi, V. Rossi Albertini, S.S. Kaciulis and A. Mezzi. *J. Phys. Chem. B*, Vol 110, p. 5529, 2006
- Investigation of magnetization reversal processes in CoPt/Pt thin films.
A.M. Testa, D. Fiorani, L. Del Bianco, E. Agostinelli, P. Imperatori, G. Scavia, G. Varvaro, F. D'Orazio and F. Lucari. *JMMM*, Vol 290 - 291, p. 467, 2005
- Structural and morphological characterization by Energy Dispersive X-Ray Diffractometry and Reflectometry measurements of Cr/Pt bilayer films.
B. Paci, A. Generosi, V. Rossi Albertini, E. Agostinelli, G. Varvaro, and D. Fiorani. *J. Mat. Chem.*, Vol 16, p. 292, 2004
- Structural, morphological and magnetic study of CoPt/Cr/MgO films by Energy Dispersive X-Ray Diffractometry and Reflectometry measurements.
B. Paci, A. Generosi, V. Rossi Albertini, E. Agostinelli and G. Varvaro. *JMMM*, Vol 272-276, supplement, p. E873, 2004
- Structural and magnetic properties of Pulsed Laser Deposition CoPt₃ films.
E. Agostinelli, G. Varvaro, L. Del Bianco, D. Fiorani, P. Imperatori, G. Scavia and A. M. Testa. *JMMM*, Vol 272-276, supplement, p. E907, 2004

- **Magnetic recording**
G. Varvaro. *Workshop AIMagn - Enterprises "Il magnetismo attrae l'impresa"*, 25 February, 2014
- **Microstructural investigation of magnetic CoCrPt:SiO₂ films**
G.Barucca, E. Santecchia, P. Mengucci, G. Varvaro, F. Springer, E. Agostinelli, A.M. Testa, C. Brombacher and M. Albrecht, MC2013, Regensburg (Germany), 25 - 30 August, 2013
- **Defect-induced magnetism in cobalt-doped ZnO epilayers.**
G. Ciatto, A. Di Trollo, E. Fonda, P. Alippi, A. Polimeni, M. Capizzi, G. Varvaro and A. Amore Bonapasta, ICDS27, Bologna (Italy), 21 - 26 July, 2013
- **FePt-based perpendicular graded films for ultra-high density magnetic recording.**
V. Alexandrakis, Th. Speliotis, E. Manios, D. Niarchos, J. Fidler, A.J. Lee, G.Varvaro, A.M. Testa, E.Agostinelli and D. Fiorani. *MAGNET13*, Napoli (Italy), 20 - 22 February, 2013
- **FePt(L1₀)@MWCNTs/Ru(NPs): A smart nanocomposite for catalysis applications.**
A. Capobianchi, B. Astinchap, R. Moradian, G. Varvaro, S. Laureti, A. Montone, D. Mirabile Gattia, A. Ardu and C. Cannas. *Nanosea2012*, S. Margherita di Pula (Italy), 25 - 29 June, 2012
- **Interface exchange coupling in magnetic nanostructures.**
S. Laureti, E. Agostinelli, L. Del Bianco, D. Peddis, A. M. Testa, G. Varvaro and D. Fiorani. *Nanosea2012*, S. Margherita di Pula (Italy), 25 - 29 June, 2012
- **Anisotropic MRI relaxivity of magnetically aligned carbon nanotubes.**
D. Calle, A. Cerpa, V. Negri, E. Agostinelli, S. Cerdan, S. Laureti, P. Ballesteros and G. Varvaro. *ESMRMB12*, Leipzig (Germany), 06 - 08 October, 2012
- **Advanced magnetic materials for ultra high density magnetic recording.**
G. Varvaro. *NanotechItaly12*, Venezia (Italy), 21- 23 November, 2012
- **Magnetization reversal mechanism in perpendicular exchange-coupled Fe/L1₀-FePt bilayers.**
G. Varvaro, D. Fiorani, F. Albertini, E.Agostinelli, F. Casoli, S. Laureti, P. Lupo, P. Ranzieri and A.M. Testa. *ICSM12*, Istanbul (Turkey), 29 April - 04 May, 2012
- **Study of magnetization reversal mechanism in exchange-coupled systems: perpendicular Fe/L1₀-FePt bilayers with variable Fe layer thickness.**
E. Agostinelli, G. Varvaro, A.M. Testa, D. Fiorani, S. Laureti, F. Albertini, F. Casoli, P. Lupo and P. Ranzieri. *ICWNCN 2012*, New Dehli (India), 13 March, 2012
- **Influence of Fe layer thickness on domain structure and reversal mechanism in Exchange-coupled Fe/L1₀-FePt bilayers.**
G. Varvaro, D. Fiorani, F. Albertini, E.Agostinelli, F. Casoli, S. Laureti, P. Lupo, P. Ranzieri and A.M. Testa. *Nano-S&T 2011*, Dalian (China), 23 - 26 November, 2011
- **Reversal mechanism in perpendicular exchange-coupled Fe/L1₀-FePt continuous films.**
G. Varvaro, F. Albertini, E.Agostinelli, F. Casoli, D. Fiorani, S. Laureti, P. Lupo, P. Ranzieri and A.M. Testa. *XCVII SIF*, L'Aquila, 26 - 30 September, 2011
- **Effect of the soft layer thickness on the domain structure and reversal mechanism in exchange-coupled ferromagnet-soft/ferromagnet-hard bilayers.**
D. Fiorani, G. Varvaro, F. Albertini, E.Agostinelli, F. Casoli, S. Laureti, P. Lupo, P. Ranzieri and A.M. Testa. *Workshop: NanoS-E3, Nanostructures for Sensor, Electronics, Energy and Environment*, Kingscliff (Australia), 12 - 16 September, 2011
- **Interface exchange coupling in ferromagnetic nanoparticles**

embedded in antiferromagnetic matrix.

D. Peddis, S. Laureti, G. Varvaro, A.M. Testa, E. Agostinelli, C. Binns, S. Baker, K.N. Trohidou, P. Nordblad, M. Hudl, R. Mathieu, N. Domingo and D. Fiorani. MIMS, Moscow (Russia), 21 – 25 August, 2011

- Reversal mechanism and domain structure in exchange-coupled Fe/L1₀-FePt bilayers.
D. Fiorani, G. Varvaro, F. Albertini, E. Agostinelli, F. Casoli, A.M. Testa, S. Laureti, P. Lupo and P. Ranzieri. *7th International Workshop on nanomagnetism & Superconductivity*, Comaruga (Spain), 3 – 7 July, 2011
- Exchange-coupled Fe/L1₀-FePt bilayers: influence of Fe layer thickness on domain structure and reversal mechanism.
G. Varvaro, D. Fiorani, F. Albertini, E. Agostinelli, F. Casoli, S. Laureti, P. Lupo, P. Ranzieri and A.M. Testa. *First Euromediterranean Meeting on Functionalized Materials EMM-FM2010*, Sousse (Tunisia), 17 – 21 March, 2011
- Influence of Fe layer thickness on domain structure and reversal mechanism in perpendicular exchange-coupled Fe/L1₀-FePt bilayers.
G. Varvaro, F. Albertini, E. Agostinelli, F. Casoli, D. Fiorani, S. Laureti, P. Lupo, P. Ranzieri and A.M. Testa. *MAGNET11*, Torino (Italy), 23 – 25 February, 2011
- Graded L1₀-FePt media as candidates for ultrahigh magnetic recording storage beyond 1 Tbit/in².
V. Alexandrikis, T. Speliotis, E. Manios, D. Niarchos, G. Varvaro, E. Agostinelli and A. Testa. *NANO2010*, Roma (Italy), 13 – 17 September, 2010
- Synthesis and characterization of modified silane covered magnetite for imaging and drug delivery.
F. Nepi, R. Salvati, M. Rossi, G. Varvaro, P. D'Elia, S. Capuani, B. Maraviglia and M. Barteri. *NANO2010*, Roma (Italy), 13 – 17 September, 2010
- Magnetic properties of nanoporous assemblies of CoFe₂O₄ aggregates nanoparticles with cubic magnetic anisotropy.
S. Laureti, G. Varvaro, D. Fiorani, A.M. Testa, E. Agostinelli, G. Piccaluga, C. Cannas, A. Musinu, A. Ardu and D. Peddis. *NANO2010*, Roma (Italy), 13 – 17 September, 2010
- Magnetic domain structure and magnetization reversal in perpendicular Fe/L1₀-FePt exchange-coupled systems.
G. Varvaro, F. Albertini, E. Agostinelli, F. Casoli, D. Fiorani, S. Laureti, P. Lupo, P. Ranzieri and A.M. Testa. *NANO2010*, Roma (Italy), 13 – 17 September, 2010
- Magnetic domain structure and magnetization reversal in Fe/L1₀-FePt exchange-coupled systems.
G. Varvaro, F. Albertini, E. Agostinelli, F. Casoli, D. Fiorani, S. Laureti, P. Lupo, P. Ranzieri. *JEMS2010*, Kraków (Poland), 23 – 28 August, 2010
- Influence of the crystallinity on magnetic properties of CoFe₂O₄ nanoparticles.
D. Peddis, S. Laureti, D. Fiorani, G. Piccaluga, C. Cannas, G. Varvaro. *Trends in Spintronic and Nanomagnetism*, Lecce (Italy), 23 – 27 May, 2010
- Exchange bias in ferromagnetic nanoparticles dispersed in an antiferromagnetic matrix: a comparative study between Co@Mn and Fe@Mn.
D. Peddis, S. Laureti, A.M. Testa, E. Agostinelli, D. Fiorani and G. Varvaro. *Trends in Spintronic and Nanomagnetism*, Lecce (Italy), 23 – 27 May, 2010
- Nanostructured materials for high density recording media.
D. Fiorani, G. Varvaro, S. Laureti, E. Agostinelli and A. M. Testa. *Nanoscience and Nanotechnology Conference*, Frascati (Italy), 20-23 September 2010
- CoPt-based systems for perpendicular magnetic recording.
D. Fiorani, G. Varvaro, S. Laureti, A.M. Testa, E. Agostinelli, G. Barucca, P. Mengucci, D. Rinaldi, and M. Albrecht. *International Conference on Superconductivity and Magnetism 2010*, Antalia (Turkey), 20 – 25 April, 2010

- CoCrPt-SiO₂ granular films for magnetic recording media.
D. Fiorani, G. Varvaro, S. Laureti, A.M. Testa, E. Agostinelli, G. Barucca, P. Mengucci, D. Rinaldi and M. Albrecht. *Third International Conference on Nanostructures Self-Assembly - NANOSEA2010*, Cassis (France), 28 June – 2 July, 2010
- CoPt-based magnetic recording media.
D. Fiorani, G. Varvaro, S. Laureti, E. Agostinelli and A. M. Testa. *International Conference on Fine Magnetic Particles ICFPM10*, Uppsala (Sweden), 21 – 24 June, 2010
- Magnetization Reversal Mechanism in CoCrP@SiO₂ Perpendicular Recording Media.
G. Varvaro, A.M. Testa, E. Agostinelli, S. Laureti, M. Albrecht and D. Fiorani. *Workshop CNR - NSC Taiwan*, 24 June, 2009
- Magnetization Reversal Mechanism in CoCrP@SiO₂ Perpendicular Recording Media.
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